DATASHEET - M22-KC01



Contact element, Screw terminals, Base fixing, 1 NC, 24 V 3 A, 220 V 230 V 240 V 6 A



Part no.	M22-KC01
Catalog No.	216382
Alternate Catalog	M22-KC01Q
No.	
EL-Nummer	4355366
(Norway)	

Delivery program

Delivery program		
Basic function accessories		Contact elements
Connection technique		Screw terminals
Fixing		Base fixing
Degree of Protection		IP20
Connection to SmartWire-DT		no
Approval		ET 16107 Sicherheit geprüft tested safety
Contacts		
N/C = Normally closed		1 NC 🕀
Notes		Θ = safety function, by positive opening to IEC/EN 60947-5-1
Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1		
	mm	4.8
Maximum travel	mm	5.7
Minimum force for positive opening	Ν	15
Contact sequence		

07/30/2021

Contact travel diagram, stroke in connection with front element	
Contact diagram	0 1.2 5.5
Configuration	2 3 1
Connection type	Single contact
Connection technique	Screw terminals
Notes	
Up to 3 off per enclosure base	

Technical data

G	en	e	al

General			
Standards			IEC 60947-5-1
Lifespan, mechanical	Operations	x 10 ⁶	> 5
Operating frequency	Operations/h		≦ 3600
Actuating force		n	≦5
Operating torque (screw terminals)		Nm	≦ 0.8
Degree of Protection			IP20
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +70
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half- sinusoidal		g	> 30
Terminal capacities		mm ²	
Solid		mm ²	0.75 - 2.5
Stranded		mm ²	0.5 - 2.5
Flexible with ferrule		mm ²	0.5 - 1.5
Contacts			
Rated impulse withstand voltage	U _{imp}	V AC	6000
Rated insulation voltage	Ui	V	500
Overvoltage category/pollution degree			111/3
Control circuit reliability			
at 24 V DC/5 mA	H _F	Fault probabili	< 10 ⁻⁷ (i.e. 1 failure to 10 ⁷ operations) ty
at 5 V DC/1 mA	H _F	Fault probabili	< 5 x 10 ⁻⁶ (i.e. 1 failure in 5 x 10 ⁶ operations) ty
Max. short-circuit protective device			
Fuseless		Туре	PKZM0-10/FAZ-B6/1
Fuse	gG/gL	А	10
Switching capacity			
Rated operational current	l _e	A	
AC-15			
115 V	le	A	6
220 V 230 V 240 V	l _e	А	6
380 V 400 V 415 V	le	А	4
500 V	I _e	А	2
DC-13			
24 V	I _e	А	3
42 V	le	А	1.7
60 V	I _e	А	1.2
60 V 110 V	l _e	A A	1.2 0.6

Lifespan, electrical			
AC-15			
230 V/0.5 A	Operations	x 10 ⁶	1.6
230 V/1.0 A	Operations	x 10 ⁶	1
230 V/3.0 A	Operations	x 10 ⁶	0.7
DV-13			
12 V/2.8 A	Operations	x 10 ⁶	1.2
Auxiliary contacts			
Rated conditional short-circuit current	Iq	kA	1

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.11
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])				
Number of contacts as change-over contact 0				
Number of contacts as normally open contact 0				
Number of contacts as normally closed contact 1				
Number of fault-signal switches 0				

Rated operation current le at AC-15, 230 V	А	6
Type of electric connection		Screw connection
Model		Top mounting
Mounting method		Floor fastening
Lamp holder		None
Approvals		
Product Standards		IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	UL/CSA Type: -

Dimensions

